

Draft Agenda – NSSL Review – Feb 25-27, 2015

Location: National Severe Storms Laboratory
National Weather Center
120 David L. Boren Blvd
Norman, OK
Room 3910

Tuesday, Feb 24

8:00 – 9:00 pm Committee Executive Session (if requested)

DAY 1: Wednesday, Feb 25, 2015

7:00 - 7:30 Breakfast at NCED hotel with OAR AA, DAA, and Reviewers

7:45 Meet in lobby for transportation to NSSL

8:00 Welcome and Introductions (McLean or designee)

8:15 Overview of NOAA/OAR research (Fine)

8:30 Lab Director's Welcome & Overview (Koch)

(All presentations below include Q&A time)

9:20 Weather Radar Research Overview (Jain)

- Since the last review...

9:30 Weather Radar Research: Dual Polarization (Jain)

9:30 New Concepts in Utilization of Polarimetric Radars (Ryzhkov)

9:50 Winter Microphysics (Reeves)

10:10 Improving NWP Models with Polarimetric Radar Data (Snyder)

10:30 Break

10:50 Weather Radar Research: R2O (Jain)

10:50 Hydrometeor Classification Algorithm 2 (HCA2) (Schuur)

11:10 mPING (Elmore)

11:30 Innovative Techniques to Improve Weather Observations (Warde)

11:50 Summary/Q&A (Jain)

12:00 Lunch (Reviewers with NSSL Management and OAR HQ, room 2410)

1:00 Weather Radar Research: MPAR (Jain)

- 1:00 Overview (Hondl)
1:20 Engineering Research (Torres)

1:40 Transition to Next Session

1:50 *Concurrent Sessions*

Reviewers-Only Session: Electronic Posters - Radar

(12 minutes each - Reviewers select four to visit)

- Dev Lab: SHAVE-Hydro (B. Smith)
- 2nd Floor East: Advantages of Rapid-scan Phased Array Radar Data (Kuster)
- 2nd Floor West: Severe Weather and Social Science Research (Brooks)
- HWT South: Adaptive Scanning on the NWRT PAR (Priegnitz)
- HWT North: Increasing the value of NEXRAD's dual-polarization upgrade by improving the quality of correlation coefficient (Ivić)
- HWT West: Videosondes (Waugh)

Visitors' Session 2: Bay Tour (Kennedy)

2:40 Break

- 3:00 Hazardous Weather Forecasts & Warnings Overview - Forecasts (Kain)
 - Since the last review...
- 3:10 Hazardous Weather Forecasts & Warnings: Forecasts (Kain)
3:10 Severe Weather Climatology and Long-Term Forecasting (Brooks)
3:30 Basic Research on Severe Convection and CI (Ziegler)
3:50 Ground-Based Instrument Development & Observational Strategies (Turner)
4:10 Mini-break
4:20 Warn on Forecast (Wicker)
4:40 R2O, SPC and Field Experiments (Coniglio)
5:00 HWT Spring Forecast Experiment History & Success (Clark)

5:20 Break (End of day for visitors)

- 5:30 Reviewer closed session discussion with NSSL Director & Division Chiefs

5:50 Reviewer closed session

6:10 Adjourn

DAY 2: Thursday, Feb 26

- 8:00 Welcome and recap (Koch)
- 8:10 Hazardous Weather Forecasts & Warnings Overview - Warnings (Jorgensen)
- Since the last review...
- 8:20 Hazardous Weather Forecasts & Warnings: Warnings & EWP (Jorgensen)
- 8:20 FACETs (Rothfusz)
- 8:40 PHI Tool (Karstens)
- 9:00 GOES-R R2O (Calhoun)
- 9:20 Meteorological & Warning Process Studies (Heinselman)
- 9:40 HWT Experimental Warning Program History & Successes (Kingfield)
- 10:00 Summary of Weather Forecasts & Warnings/Q&A (Kain/Jorgensen)

10:10 Break

- 10:30 Hydrometeorological Research Overview (Jorgensen)
- Since the last review...
- 10:40 Multi-Radar/Multi-Sensor (MRMS) Research (Jorgensen)
- 10:40 The R2O Process (Howard)
- 11:00 MRMS-Hydro (Zhang)
- 11:20 MRMS-Severe (Smith)
- 11:40 FLASH (Gourley)
- 12:00 Hydrometeorological Research Q&A (Jorgensen)

12:10 Working Lunch (Reviewers only with “junior” NSSL/CIMMS scientists, engineers, etc., no management, in Room 2410)

1:00 Concurrent Sessions

Reviewers-Only Session: Stakeholder discussions (closed sessions)

- 1:00 Prep (Room 2410 - All reviewers)
- 1:20 Room 2410 (Hydro): TBD (NWS/OHD) - {Awaiting conf.}
- Room 2440 (Radar): Mike Istok (NWS/OCWWS) - {in person}
- 1:40 Room 2410 (Hydro): Dave Novak (NWS/NCEP/WPC) - {phone}
- Room 2440 (Radar): Mike Emmanuel (FAA) - {phone}
- 2:00 Room 2410 (Modeling): Bill Lapenta (NWS/NCEP) - {in person}
- Room 2440 (R2O): John Murphy (NWS/OS&T) - {phone}
- 2:20 Room 2410 (F&W): Russ Schneider (NWS/NCEP/SPC) - {in person}
- Room 2440 (R2O): John Cortinas (OAR/OWAQ) - {in person}
- 2:40 Room 2410 (F&W): Andy Edman (NWS/WRH/SSD) - {in person}
- Room 2440 (CI): Randy Peppler (CIMMS) - {in person}

Visitors' Session: Electronic Posters

1:00 - 1:50 (12 minutes each - select four to visit)

- Dev Lab: SHAVE-Hydro (B. Smith)
- 2nd Floor East: Advantages of Rapid-scan Phased Array Radar Data (Kuster)
- 2nd Floor West: Severe Weather and Social Science Research (Brooks)
- HWT South: Adaptive Scanning on the NWRT PAR (Priegnitz)
- HWT North: Increasing the value of NEXRAD's dual-polarization upgrade by improving the quality of correlation coefficient (Ivić)
- HWT West: Videosondes (Waugh)

2:00 - 2:50 (12 minutes each - select four to visit)

- Dev Lab: MYRORSS (T. Smith)
- 2nd Floor East: Lightning Research/Forecasting (MacGorman)
- 2nd Floor West: Lightning Data Assimilation (Mansell)
- HWT South: PARISE (Bowden)
- HWT North: PAR to the rescue - Improving clutter mitigation with spatial filtering (Curtis)
- HWT West: Using Bragg Scattering for ZDR Calibration (Melnikov)

3:00 Break

3:20 Concurrent Sessions

Reviewers-Only Electronic Poster Sessions

(12 minutes each - Reviewers select four to visit)

- Dev Lab: MYRORSS (T. Smith)
- 2nd Floor East: Lightning Research/Forecasting (MacGorman)
- 2nd Floor West: Lightning Data Assimilation (Mansell)
- HWT South: PARISE (Bowden)
- HWT North: PAR to the rescue - Improving clutter mitigation with spatial filtering (Curtis)
- HWT West: Using Bragg Scattering for ZDR Calibration (Melnikov)

Visitors' Session: Optional tour of MPAR facilities

3:20 Leave for North Base
3:40 PAR Tour (Zahrai)
4:10 Return to NWC

4:10 Transition Break (and follow-up Q&As with poster presenters)

4:20 Line Office Reps Report-out to NSSL/OAR Management (Room 3910)

5:00 End of Review for visitors. Reviewers adjourn for dinner alone.

DAY 3: Friday, Feb 27

8:00 Bay Tour - Reviewers only (Kennedy)

8:30 PAR Tour (Reviewers only)

8:30 Depart NWC for North Base

8:50 PAR Tour (Hondl)

9:30 Depart North Base for NWC

9:50 Break

10:00 Wrap-up Formal Sessions and Final Q&As (Koch, Rothfusz, Division Chiefs)

- Radar Research
- Hydrometeorological Research
- Forecasts and Warnings Research

10:45 Reviewer Closed Session (begin to write)

11:45 Lunch (Reviewers only in room 2410)

1:00 Reviewers Report-Out to OAR & NSSL Management

1:30 Final Comments (Koch)

1:40 Adjourn